

Yamaha DX7 LCD Installation Guide



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Read the entire document before beginning the installation process. Take your time, take notes, and take photos whenever the need arises.

Be sure to unplug the machine before working on the inside, the voltages inside have the potential to be very dangerous!

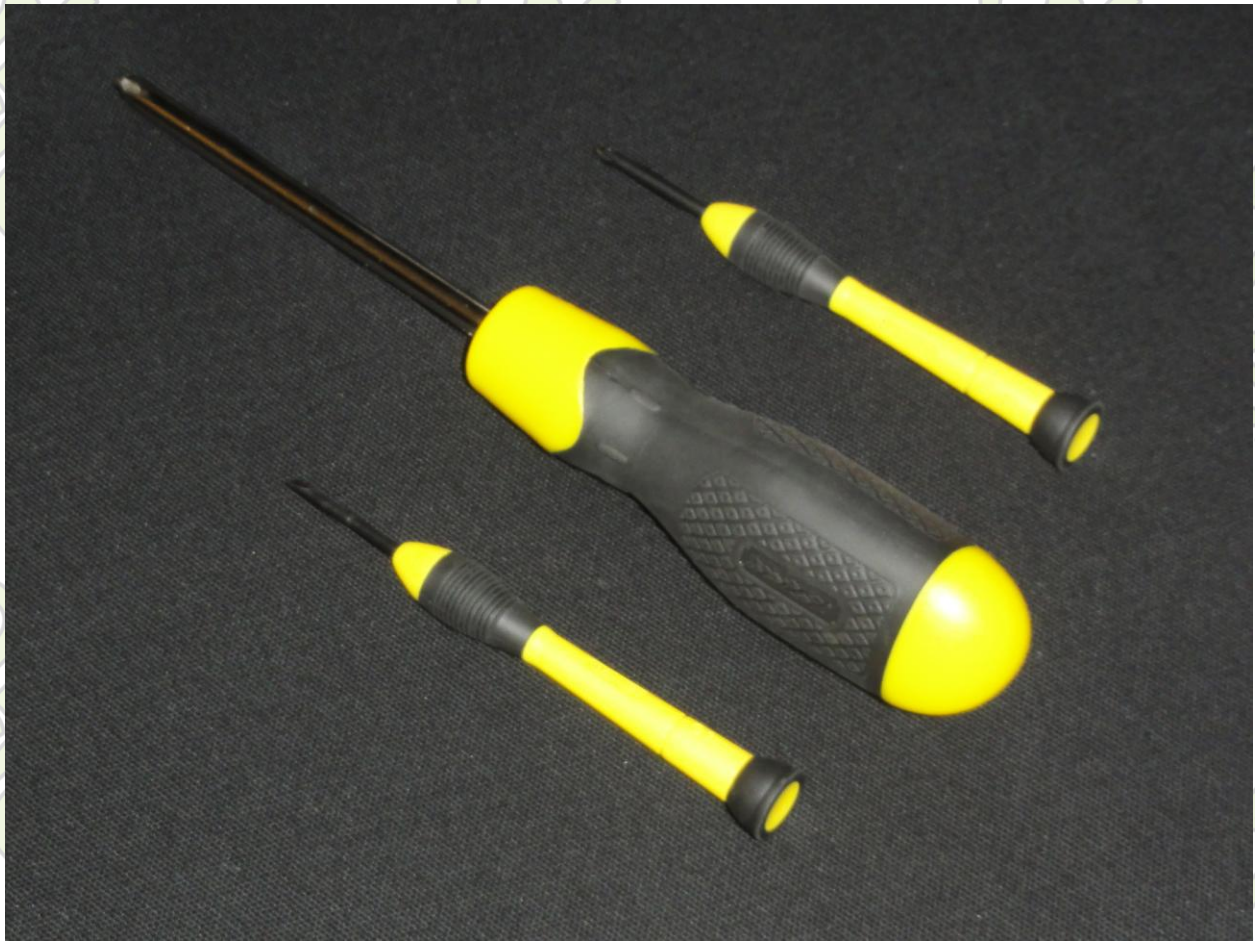


Fig. 1 - Required Tools

Required Tools

- Phillips Head Screwdriver
- Small Phillips Head Screwdriver
- Small Flat Head Screwdriver

Before getting Started

- Power off and unplug the DX7 before starting

Continue at your own risk! The author of this document cannot be held responsible for any damages caused by the information contained within this document.



Fig. 2 - Opening the DX7

Step 1:

You will need to remove 5 screws in order to open the DX7. Four screws are located on the top face of the DX7 circled in red in the photo above and one is located on the back beside the power switch. Remove these screws using a phillips head screwdriver.

Be sure to unplug the machine before working on the inside, the voltages inside have the potential to be very dangerous!

Once all 5 screws have been removed lift upward on the hinged DX7 face to open it.

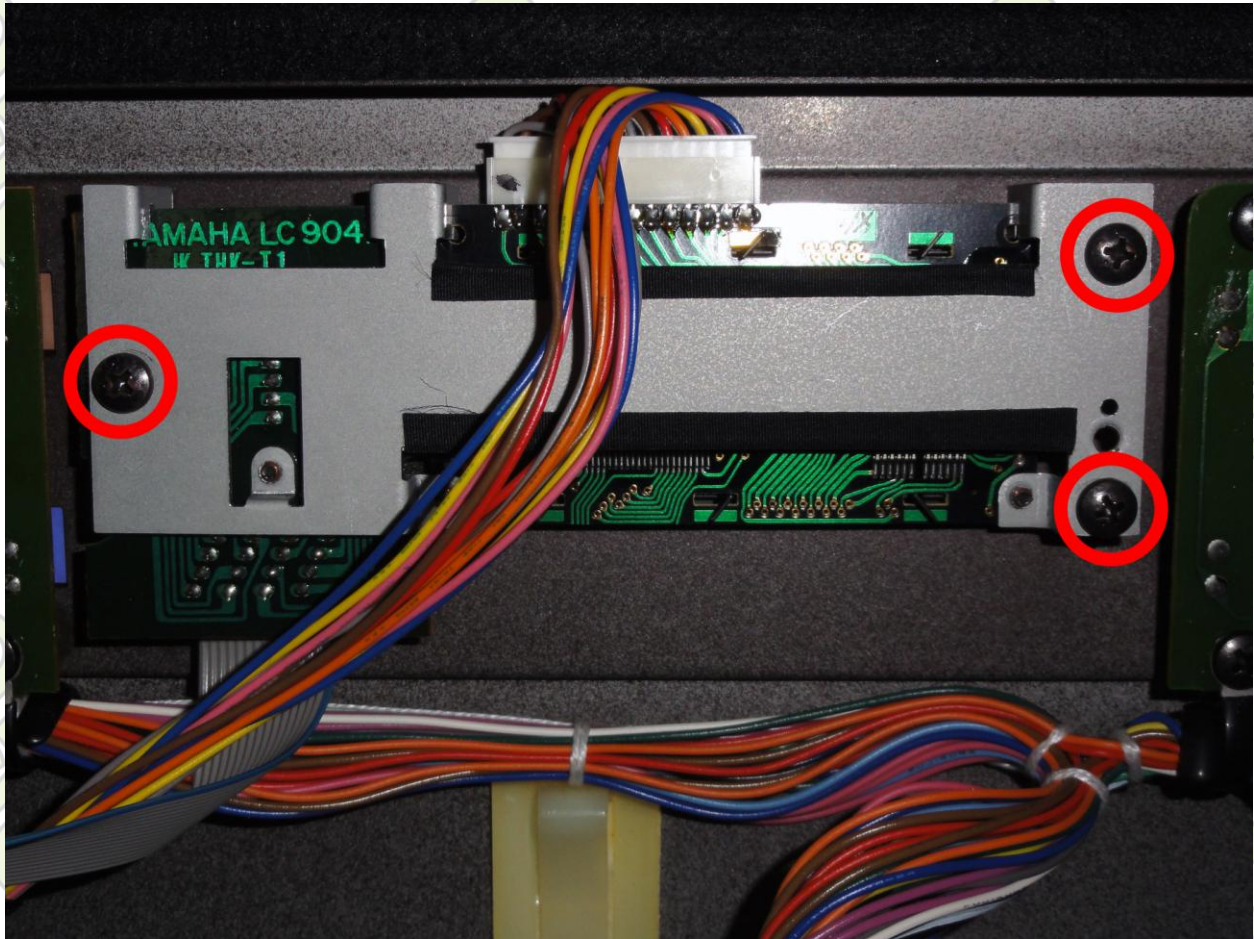


Fig. 3 - LCD Mounting Bracket

Step 2:

Now that the DX7 is opened, locate the LCD mounting bracket. There are 3 phillips head screws that hold the bracket in place. Remove the 3 screws to disconnect the bracket from the DX7 body.



Fig. 4 - Prying up the LCD Bezel Cover

Step 3:

Once the LCD bracket is disconnected you will find that the LCD bezel/cover is attached to the LCD as shown in the photo above. The LCD bezel/cover needs to be removed; it is attached to the original LCD with double sided tape. In order to remove the cover, pry up on it using your fingers. Be careful this piece could break given enough force so take your time. The double sided tape is strong industrial type so it does take a bit of force to pull it up, just don't overdo it. Once the LCD bezel/cover is removed set it aside tape side up since the tape may be reused.

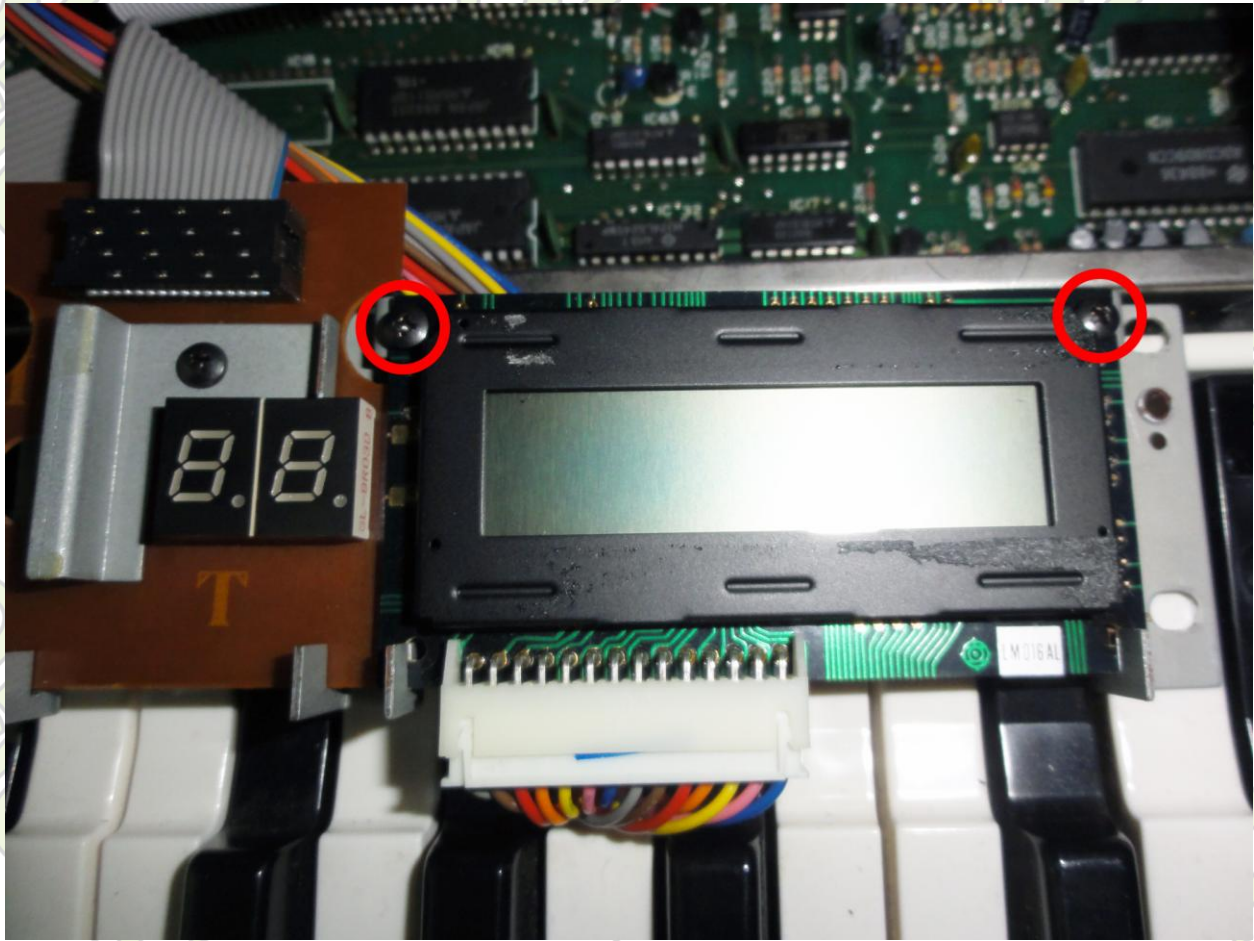


Fig. 5 - LCD attached to bracket with 2 screws

Step 4:

Now that the LCD bezel/cover is removed you will need to remove the 2 screws that attach the LCD to the bracket. The 2 screws are located at the top corners of the LCD as shown in the photo above. Remove the 2 screws and unplug the cable attached to the LCD.



Fig. 6 - The backlit LCD in place of the original

Step 5:

Now that the original LCD has been removed place the backlit LCD replacement into the LCD bracket. Put the 2 screws into the top 2 corner mounting holes. At this point it is best not to completely tighten the screws down so that the position of the LCD can be adjusted in the next step. Plug the cable into the backlit LCD; it is a keyed plug so it can only be plugged in one way.



Fig. 7 - Align the LCD bezel/cover

Step 6:

Now that the LCD is in place in the bracket the LCD bezel needs to be attached to the LCD. The double sided tape left over can be reused for this purpose. To simplify getting the LCD properly aligned with the bezel/cover it is a good idea to power on the DX7. However **since the unit is opened this poses a danger if you are not careful.** Do not touch any of the circuitry while the unit is powered up unless you know what to avoid. With the LCD lit up align the bezel/cover to it and press it in place once aligned. The left edge should also align with the part of the metal bracket beside the numerical displays but not touch it. Once all is aligned tighten the top 2 LCD screws completely. Power down the unit.



Fig. 8 - LCD contrast adjustment pot

Step 7:

At this point if needed adjust the LCD contrast. The LCD contrast can be adjusted by using a small flat head screwdriver to turn the contrast potentiometer VR1. VR1 is located beside the gray ribbon cable connection on the main board as shown circled in red in the photo above. The contrast pot is also labeled in white silk screen with VR1. Adjust this as needed and then power off the DX7.

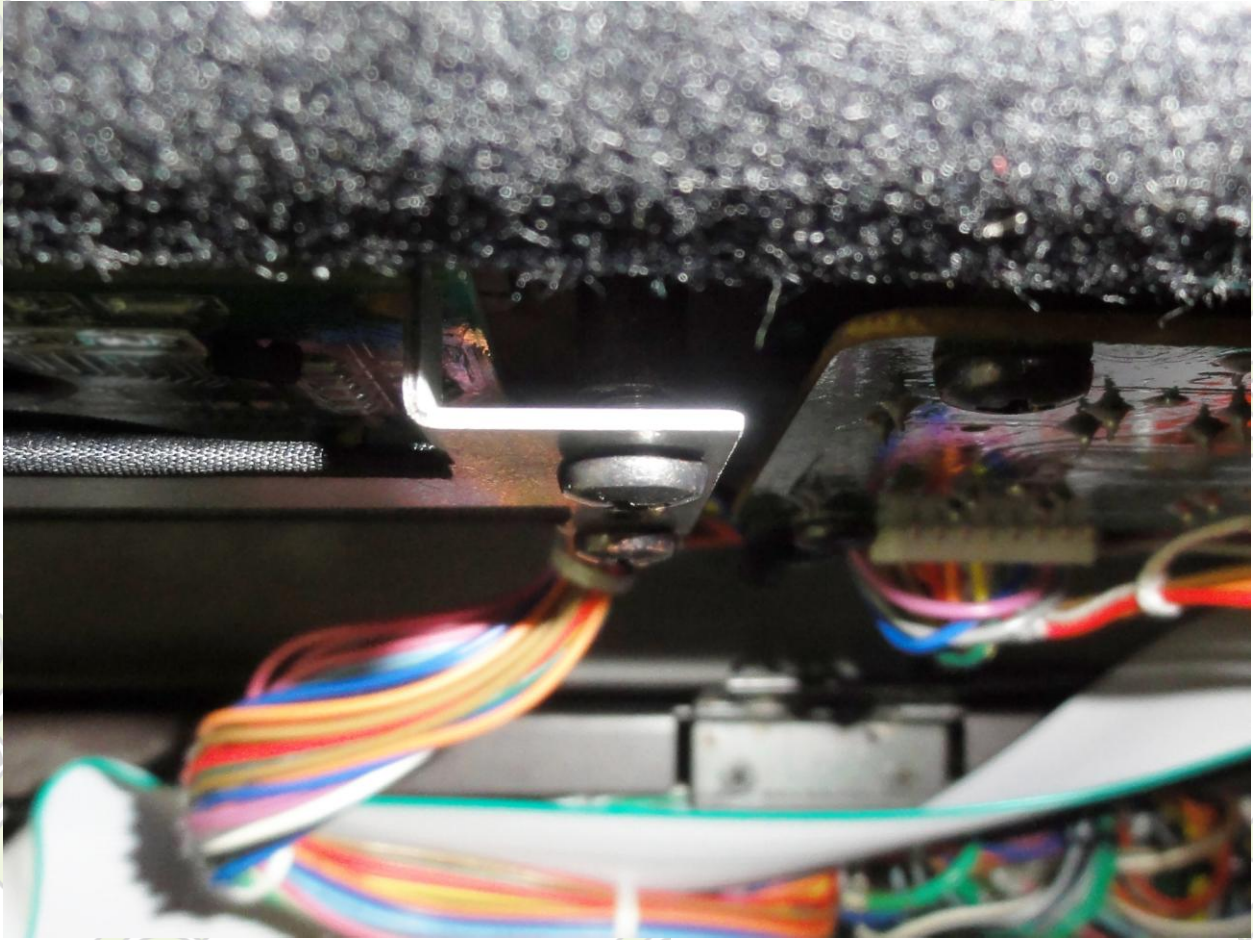


Fig. 9 - The backlit LCD in place of the original

Step 8:

Now the bracket needs to be reinstalled onto the body of the DX7. Since there is a difference in the height between the original LCD and the backlit replacement LCD you need to account for this difference. The 3 screws which attach the bracket to the body of the DX7 should **not** be completely screwed in. The photo above shows the top right bracket screw not completely screwed in. As you can sort of see that there are about 3/32" of threads not screwed in. This applies to all 3 screws. The reason for this is to account for the difference in height in order to avoid over tightening the bracket which could cause damage. As you will find, it is still completely secure this way.



Fig. 10 - Finished LCD installation

Step 9:

After the bracket has been properly screwed back in place close the DX7 power it up and check that the LCD is working properly and looks to be correctly aligned. At this point if it all checks out, go ahead and put the top panel case screws back in and you are finished.



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